

THE RAVEN / RVS

ABSTRACT

A System for Broadcasting and listening to the Radio and Viewing slow Scan TV Pictures. Using an ordinary AM/FM Receiver and a Slow Scan Video Converter (SSTV)

Why not FSTV or Regular TV Pictures on the AM/FM Band?

Well full motion Band Width is 6MC Wide per Channel.

A very raw and not to Scale Example would be; if I Extended My arms outward from My left to my right side then from My left hand finger tips to My right hand finger tips would be My TV Bandwidth (FSTV) fast Scan TV.

Now lets say on one arm only. From My elbow to My finger tips on the same arm is the Bandwidth for FM, and on that same arm from My wrist to My finger tips would be the AM Bandwidth, and now where My hand ends and my finger tips begin from that point to My finger tips would be the Bandwidth for (SSTV) Slow Scan TV.

As you can see full motion TV (NBTV is another Story 431730 per 1982 Brown 483/22), is too wide and would not fit into the AM 10khz or the FM 200khz Bandwidth per Channel

Further more even Full Motion TV can make use of SSTV; such as the WYMAN AM439 ATV Transmitter in combination with TASCOS TSC-70 Slow Scan Color TV Converter XM and SIRIUS Satellite Radio's CNN and FOX News Channel are Audio only from the Cable Stations to the Satellite Radio Services. For Example CNN could send the SSTV Signal through its SAP to XM and XM then send the SSTV Signal through its RDS Channel.

My particular Transmitter is an AM Stereo setup with Slow Scan Video, for Example; My AM Audio Carrier is 700khz with a Bandwidth of 10khz (695khz to 705khz) and My AM Video Carrier is at 692khz with a Bandwidth of 4khz (690khz to 694khz). A total of 15khz wide allowable by the FCC for standard AM broadcast in the United States.

The Slow Scan Video can be an AM Picture using Robot 36 Mode of FM Picture in the AM Band using the fast FM Mode of the VC-H1 and a Transmitter like the AM 88 North Country Radio that can broadcast an AM/FM Mode on the AM Band

In addition, SSTV Pictures can be had on FM, using the RDS at 57khz or the SCA at the 67khz above the main FM Carrier.

Now because of Modulation differences (if desired) and Frequency difference (-8khz) there is no interference between the Audio and Video on the AM Service.

A Diplexer and an Antenna Tuner enables both Signals to be sent out from the same Antenna.

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FCC GRO License # PG-18-30683

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Hobby Broadcast AM Part 15: AM-1 and AM PRO-25, Schematic Study and Kit Building Ramsey Electronics.